<table>
<thead>
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<th>Amino Acid Profile, Quantitative, Plasma</th>
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<td><strong>Test Code:</strong> AA</td>
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<td><strong>Turnaround time:</strong> 7 days  (STAT results: 1 day.)</td>
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<td><strong>CPT Codes:</strong> 82139 x1</td>
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### Condition Description
Plasma amino acids analysis will detect specific amino acid disorders such as phenylketonuria (PKU), maple syrup urine disease (MSUD), urea cycle defects, non-ketotic hyperglycinemia and homocystinuria, etc. Plasma amino acids values are compared to age-matched normal values. Quantitative analysis of amino acids can also be performed to monitor established patients diagnosed with metabolic disorders.

### Indications
This test is indicated in the case of:
- Infants with a positive newborn screening result indicative of a metabolic disorder.
- Evaluation of patients with signs of a possible metabolic condition, such as lethargy, vomiting, and failure to thrive.
- Monitoring for individuals diagnosed with a metabolic condition.

### Methodology
Quantitative ion exchange chromatography, reported as micromoles/L.

### Detection
This test is very sensitive for specific amino acid disorders, but detection can be sensitive to the clinical and nutritional status of the patient.

### Specimen Requirements
**Submit only 1 of the following specimen types**

**Type: Plasma**

**Specimen Requirements:**
Sodium Heparin (Green Top) 1-2 ml
Sample should be collected while fasting or 2-4 hours post prandial. Centrifuge to separate plasma and freeze.

**Specimen Collection and Shipping:**
Ship frozen sample on dry ice with overnight delivery.

### Special Instructions
Please indicate any medications or dietary changes on the test requisition form.

### Related Tests
- **Organic Acids Quantitative Analysis (OA)** is used in the diagnosis and evaluation of patients with metabolic conditions.